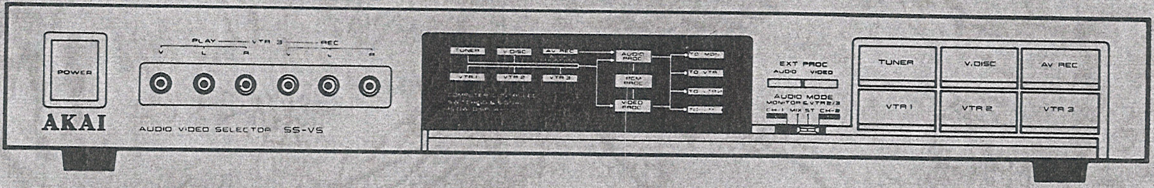
721

SS-V5
J/U/UM
EA/EK/EO/S

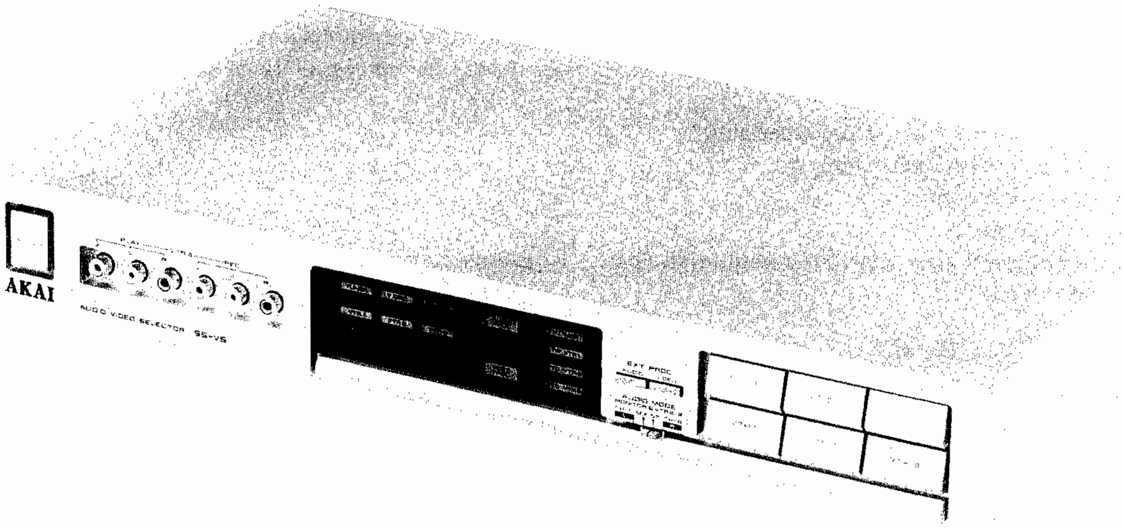
# AKAI SERVICE MANUAL


POWER
AKAI
PLAY
VTR 3
REC
V
L
R
V
L
R
AUDIO VIDEO SELECTOR SS-V5
TUNER
V.DISC
AV REC
VTR 1
VTR 2
VTR 3
AUDIO PROC
PCM PROC
VIDEO PROC
TO MON
TO VTR
EXT PROC
AUDIO
VIDEO
AUDIO MODE
MONITOR & VTR 2/3
CH-1
MIX
ST
CH-2
TUNER
V.DISC
AV REC
VTR 1
VTR 2
VTR 3

## AUDIO VIDEO SELECTOR

## MODEL SS-V5 J/U/UM EA/EK/EO/S

721


AKAI
AUDIO VIDEO SELECTOR SS-V5

# AUDIO VIDEO SELECTOR

# MODEL SS-V5 J/U/UM EA/EK/EO/S

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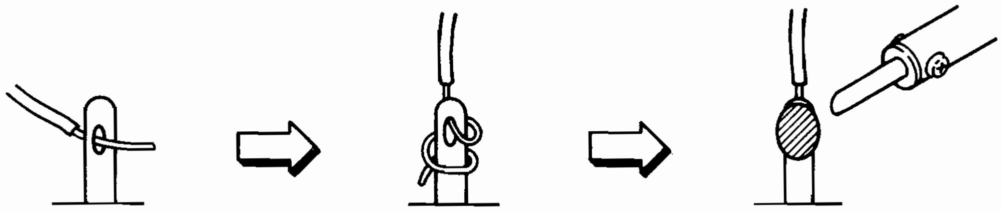
# SAFETY INSTRUCTIONS

## SAFETY CHECK AFTER SERVICING

Confirm the specified insulation resistance between power cord plug prongs and externally exposed parts of the set is greater than 10 Mohms, but for equipment with external antenna terminals (tuner, receiver, etc.) and is intended for $\boxed{C}$ or $\boxed{A}$, specified insulation resistance should be more than 2.2 Mohms (ground terminals, microphone jacks, headphone jacks. line-in-out jacks etc.)

## PRECAUTIONS DURING SERVICING

1. Parts identified by the ⚠ symbol parts are critical for safety.
   Replace only with parts number specified.
2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation. These must also be replaced only with specified replacements.
   Examples: RF converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.
3. Use specified internal wiring. Note especially:
   1) Wires covered with PVC tubing
   2) Double insulated wires
   3) High voltage leads
4. Use specified insulating materials for hazardous live parts. Note especially:
   1) Insulation Tape
   2) PVC tubing
   3) Spacers (Insulating Barriers)
   4) Insulation sheets for transistors
   5) Plastic screws for fixing microswitch (especially in turntable)
5. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap ends of wires securely about the terminals before soldering.



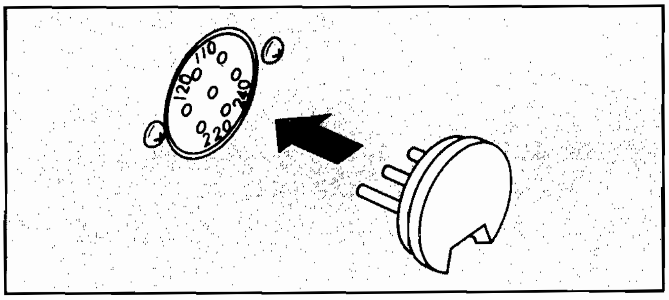
6. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).
7. Check that replaced wires do not contact sharp edged or pointed parts.
8. Also check areas surrounding repaired locations.
9. Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

## VOLTAGE CONVERSION

Models for Canada, USA, Europe, UK and Australia are not equipped with this facility. Each machine is preset at the factory according to its destination, but, some machines can be set to 110V, 120V, 220V or 240V as required.
If your machine's voltage can be converted:
Before connecting the power cord, gently pull the voltage selector plug (located on the rear panel) from it's socket. Remove the 3 prong cap from the voltage selector plug. Reinsert the prongs of the cap into the holes in such a way that when inserted, the correct voltage for your area will be displayed. Then, return the voltage selector plug to it's socket.

## CYCLE CONVERSION

Cycle conversion is not necessary.



## SECTION 1

# SERVICE MANUAL

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# I. SPECIFICATIONS

## VIDEO SECTION

| | |
|---|---|
| INPUT LEVEL/IMPEDANCE | 1Vp-p/75ohms |
| OUTPUT LEVEL/IMPEDANCE | 1Vp-p/75ohms |
| FREQUENCY RESPONSE | 50Hz to 6MHz ±1dB |
| CROSSTALK | Less than –45dB (at 3.58MHz) |

## AUDIO SECTION

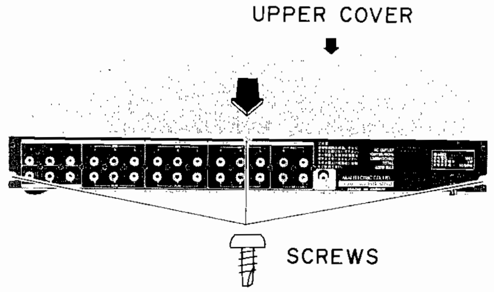
| | |
|---|---|
| INPUT LEVEL/IMPEDANCE | 2.5Vrms max/47kohms |
| OUTPUT LEVEL/IMPEDANCE | 0 ±1dB/Less than 1kohms (to input signal) |
| FREQUENCY RESPONSE | 20Hz to 30kHz ±1dB |
| S/N | More than 70dB |
| DISTORTION | Less than 0.08% (at output level 150mV) |
| CHANNEL SEPARATION | More than 50dB (IHF-A) |
| CROSSTALK | Less than –60dB (IHF-A) |
| FUNCTION MODE BACK-UP | 7 days (Recharges after the power is turned on for more than 10 min.) |
| RF OUTPUT | VHF 3 or 4 channel switchable (preset to channel 4) |
| POWER REQUIREMENTS | 120V, 60Hz for USA & Canada<br>220V, 50Hz for Europe except UK<br>240V, 50Hz for UK & Australia<br>110/120/220/240V, 50/60Hz convertible for other countries |
| DIMENSIONS | 440(W) x 65(H) x 260(D) mm<br>(17.3 x 2.5 x 10.2 inches) |
| WEIGHT | 3.3kg (7.3 lbs) |

* For improvement purposes, specifications and design are subject to change without notice.

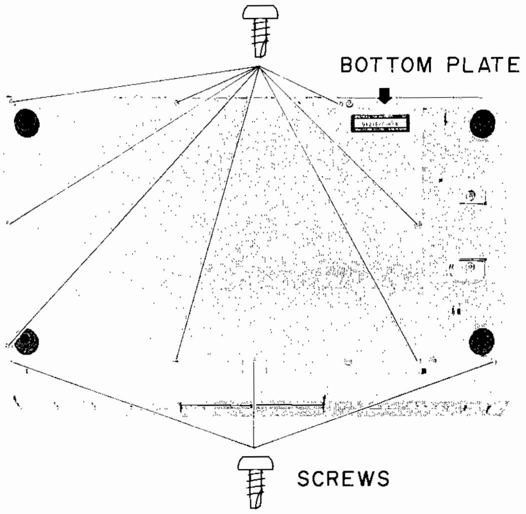
# II. DISMANTLING OF UNIT

In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the photographs. Reassemble in reverse order.

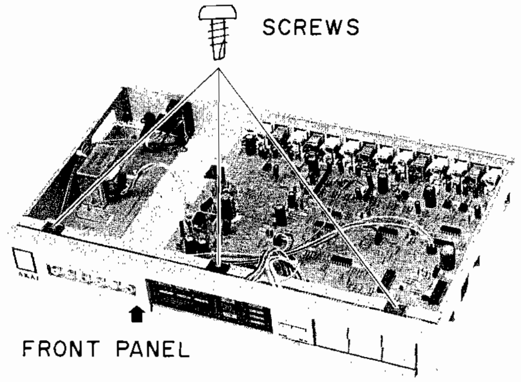
1


UPPER COVER
SCREWS

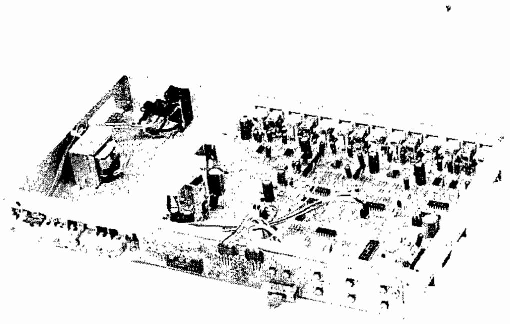
2


BOTTOM PLATE
SCREWS

3


SCREWS
FRONT PANEL

4



# III. CONTROLS

**POWER switch**

To turn on and off the Akai SS-V5.

**AV REC Source Selector**

For recording an audio source onto a video source.

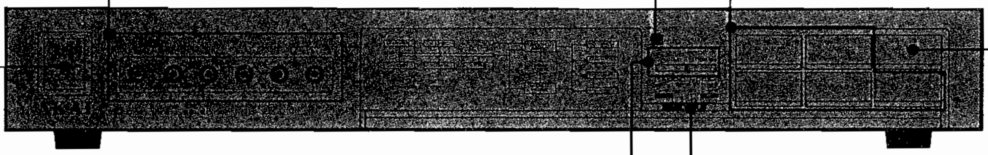
**VTR 3 front connection jacks**

For convenient connection of VTR 3 for playback or recording use.

**Input source selector buttons**

**TV/VIDEO monitor selector**

For choice of monitor use.



**EXT PROC selector**

External Processor used for selecting the mode which you will use for processing. Use AUDIO and VIDEO modes either separately or together.

**Audio Mode Selector**

For selecting the desired listening mode.

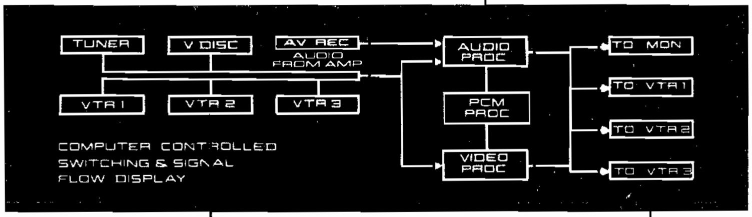
## Note on the A/V REC Source selector

When recording a Simulcast program, (simultaneous Radio and TV broadcast), or any time you want to record from Audio to Video, this source must be depressed. Usually, this button should remain off.

---

**On the Signal Flow Display**

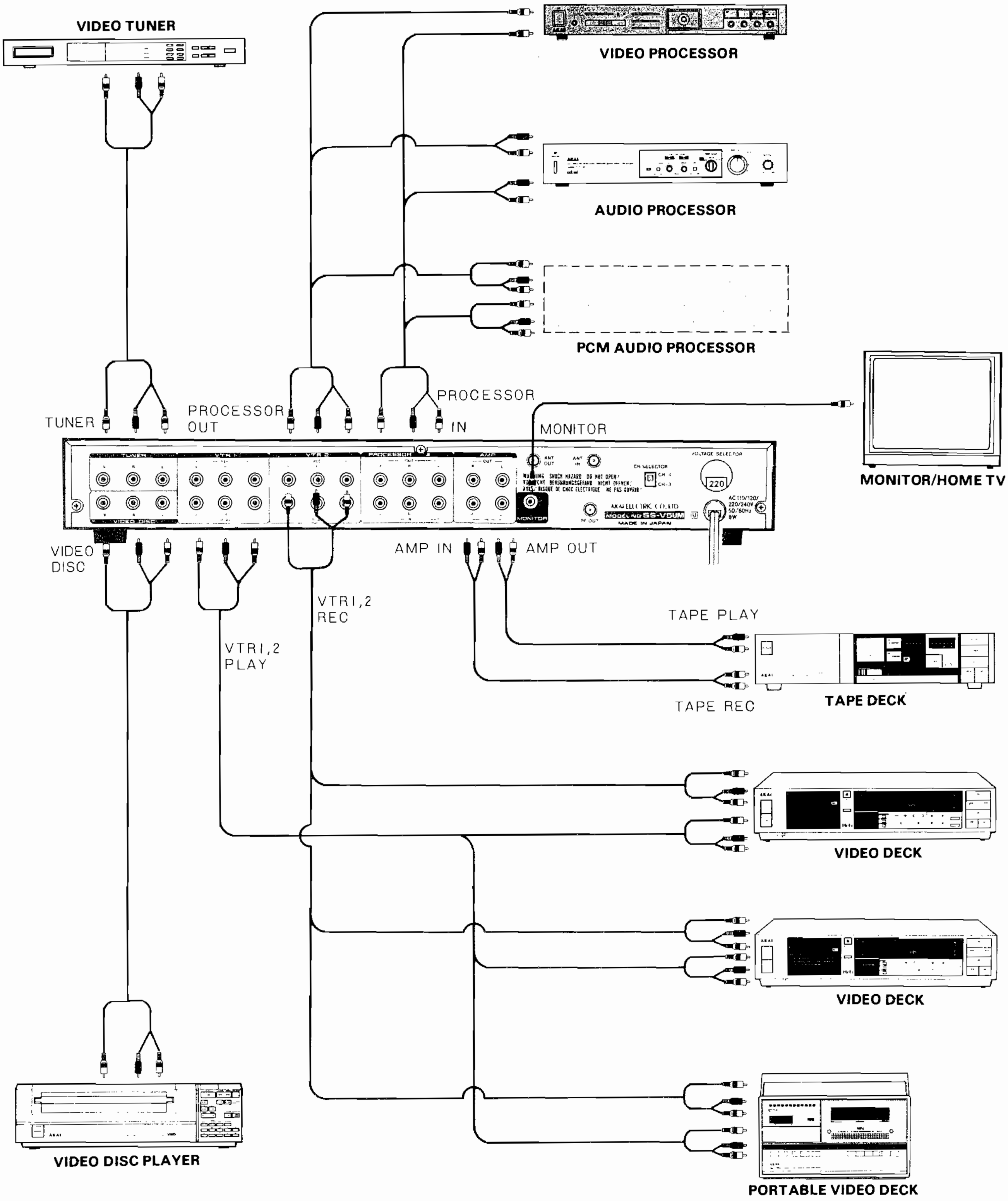
**EXT PROC indicator**


TUNER
V DISC
AV REC
AUDIO FROM AMP
VTR 1
VTR 2
VTR 3
COMPUTER CONTROLLED SWITCHING & SIGNAL FLOW DISPLAY
AUDIO PROC
PCM PROC
VIDEO PROC
TO MON
TO VTR 1
TO VTR 2
TO VTR 3

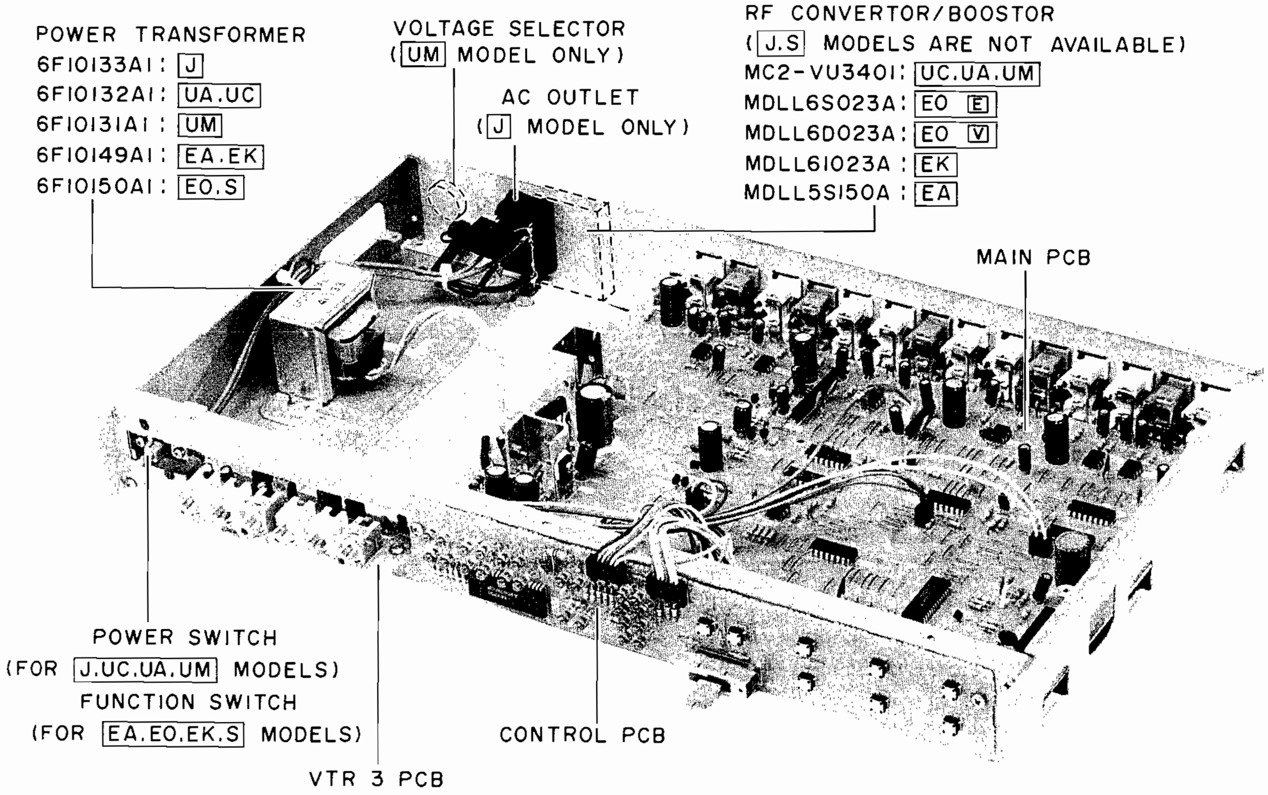
**Input Source indicator**

**Monitor/Video Output indicator**

# IV. BASIC CONNECTION TO THE SS-V5


VIDEO TUNER
VIDEO PROCESSOR
AUDIO PROCESSOR
PCM AUDIO PROCESSOR
MONITOR/HOME TV
TUNER
PROCESSOR
OUT
PROCESSOR
IN
MONITOR
VIDEO
DISC
AMP IN
AMP OUT
VTR1,2
REC
VTR1,2
PLAY
TAPE PLAY
TAPE REC
TAPE DECK
VIDEO DECK
VIDEO DECK
VIDEO DISC PLAYER
PORTABLE VIDEO DECK

# V. PRINCIPAL PART LOCATION


POWER TRANSFORMER
6F10133A1 : J
6F10132A1 : UA.UC
6F10131A1 : UM
6F10149A1 : EA.EK
6F10150A1 : EO.S
VOLTAGE SELECTOR
(UM MODEL ONLY)
AC OUTLET
(J MODEL ONLY)
RF CONVERTOR/BOOSTOR
(J.S MODELS ARE NOT AVAILABLE)
MC2-VU3401 : UC.UA.UM
MDLL6S023A : EO E
MDLL6D023A : EO V
MDLL61023A : EK
MDLL5S150A : EA
MAIN PCB
POWER SWITCH
(FOR J.UC.UA.UM MODELS)
FUNCTION SWITCH
(FOR EA.EO.EK.S MODELS)
VTR 3 PCB
CONTROL PCB

# VI. EXPLANATIONS OF UNIT

## 6-1. MODEL NAME AND DESTINATION

| MODEL NAME | | DESTINATIONS |
|---|---|---|
| SS–V5J | J | Japan |
| SS–V5U | A | USA |
| SS–V5U | C | Canada |
| SS–V5S | E | France |
| SS–V5EA | S | Australia |
| SS–V5EO | E | Netherland, Europe, Middle East, S.E Asia |
| SS–V5EO | V | W. Germany |
| SS–V5EK | B | UK |
| SS–V5UM | U | Convertible for other countries |

## 6-2. DIFFERENCE BETWEEN DESTINATIONS

| DESTINATIONS<br>DIFFERENCE ITEM | J | U | UM | EA | EO | EK | S |
|---|---|---|---|---|---|---|---|
| RF Convertor | X | ○ | ○ | ○ | ○ | ○ | X |
| RF Channel Set | – | 4CH. | 4CH. | 1CH. | 34CH. | 34CH. | – |
| AC OUTLET | ○ | X | X | X | X | X | X |
| Voltage Selector | X | X | ○ | X | X | X | X |
| Back up Time | 7 days Mini | 7 days Mini | 7 days Mini | 1HR Mini | 1HR Mini | 1HR Mini | 1HR Mini |
| * Function SW | X | X | X | ○ | ○ | ○ | ○ |
| POWER SW | ○ | ○ | ○ | X | X | X | X |
| TV/VIDEO KEY & LED | X | ○ | ○ | ○ | X | X | X |

○: equipped X: not equipped

* Operation when FUNCTION SW is "OFF".
1) Connected TUER to VTR1 (Audio only)
2) All LED are turn the light out.
3) Other out puts

| | |
|---|---|
| Monitor out | "OFF" |
| Amp out | "ON" |
| Others | "ON" |

## 6-3. INPUT/OUTPUT AND INDICATION ACCORDING TO EACH KEY MODE

| Key | Line Input | Line Output | | | | | | Indicators | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | VTR1 | VTR2 | VR3 | Amp Out | Moni. Output | *1 Booster | Input Indicators | | | | | Output Indicators | | | |
| | | | | | | | | Tuner | V.Disc | VTR1 | VTR2 | VTR3 | Moni. | VTR1 | VTR2 | VTR3 |
| TUNER | TUNER | ○ | ○ | ○ | ○ | ○ | ○ | ○ | – | – | – | – | ○ | ○ | ○ | ○ |
| V.DISC | V.DISC | ○ | ○ | ○ | ○ | ○ | ○ | – | ○ | – | – | – | ○ | ○ | ○ | ○ |
| VTR1 | VTR1 | – | ○ | ○ | ○ | ○ | ○ | – | – | ○ | – | – | ○ | – | ○ | ○ |
| VTR2 | VTR2 | ○ | – | ○ | ○ | ○ | ○ | – | – | – | ○ | – | ○ | ○ | – | ○ |
| VTR3 | VTR3 | ○ | ○ | ○ | – | ○ | ○ | – | – | – | – | ○ | ○ | ○ | ○ | – |
| *2 FUNCITON "OFF" | TUNER (Audio only) | ○ *3 | ○ *3 | ○ *3 | ○ *3 | – | ○ *3 | – | – | – | – | – | – | – | – | – |

*1: Output when TV/VIDEO indicator LED is lighting. (not available for models J and S)

*2: Available for models EA, EO, EK, S only.

*3: Audio signal output only

# VII. PC BOARD TITLE AND INDENTIFICATIONS

| PC BOARD TITLE | PC BOARD NUMBER | REMARKS |
|---|---|---|
| MAIN PC BOARD | 6A00053 MAIN | |
| CONTROL PC BOARD | 6A00053 CONTROL | |
| VTR.3 PC BOARD | 6A00053 VTR3 | |
| FILTER PC BOARD | 6A00053 FILTER | EXCEPT $\boxed{J}$ MODEL |

SECTION 2

# PARTS LIST

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RECOMMENDED SPARE PARTS ....13
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2. MAIN PC BOARD ....13
3. CONTROL PC BOARD ....13
4. VTR 3 PC BOARD ....13
5. FILTER PC BOARD ....13
6. ASSEMBLY BLOCK ....14
7. FINAL ASSEMBLY BLOCK ....15
8. ACCESSORY BLOCK ....15
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Resistor and Capacitor which is not listed in this parts list, please refer to COMMON LIST FOR SERVICE PARTS.

## ATTENTION

1. When placing an order for parts, be sure to list the parts no. model no., and description of each part. If any of this information is omitted, there are instances in which parts cannot be shipped or the wrong parts will be delivered.
2. Please be careful not to make a mistake in the parts no. If the parts no. is in error, a part different from the one ordered may be delivered.
3. Because part numbers and part definitions and supply in the Preliminary Parts List may have been the subject of changes, please use this parts list for all future reference.

## HOW TO USE THIS PARTS LIST

1. This Parts List shows those parts which are considered necessary for repairs. Other parts, such as resistors and capacitors, are shown in the "Common List for Service Parts" from which these parts should be selected and parts.
2. The Recommended Spare Parts List shows those parts in the Parts List which are considered particularly important for service.
3. Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.
4. How to read the parts list

a) Mechanism Block

### 2. HEAD BASE BLOCK

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 2-1x | BH-T2023A320A | HEAD BASE BLOCK GX-F66R |
| 2-2 | HP-H2206A010A | HEAD R/P PR4-8FU C |
| 2-3 | ZS-477876 | PAN20×03STL CMT |
| 2-4 | ZS-536488 | BID20×08STL CMT |
| 2-5 | ZG-402895 | CS ANGLE ADJUST SPRING |

SP (Service Parts) Classification

A small "x" indicates the inability to show that particular part in the Photo or Illustration.

This number corresponds with the individual parts index number in that figure

This number corresponds with the Figure Number

b) P.C Board Block

### 6. SYS. CON. P C BOARD BLOCK

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 6-1 | BA-T2034A070A | PC SYS CON BLK GX-F44R |
| 6-IC1 | EI-324536 | IC HD14049BP |
| 6-IC2 | EI-336801 | IC MB8841-564M |
| 6-IC3 | EI-331661 | IC SN7405N |
| 6-IC4 | EI-336725 | IC M54527P |
| 6-TR1to4 | ET-200985 | TR 2SC2603 F,G |
| 6-TR5to28 | ET-554657 | TR 2SA733A P,Q |
| 6-D1 | ED-318292 | D SILICON H 1S2473T-77 T26 |
| 6-D2to4 | ED-308952 | D GERMA V 1K34A-LR F07 |
| 6-D5to10 | ED-318292 | D SILICON H 1S2473T-77 T26 |
| 6-X1 | EI-318384 | OSC X'TAL NC-18C<br>3.579545MHZ |

SP (Service Parts) Classification

These reference symbols correspond with component symbols in the Schematic Diagrams.

5. The kind of part and its installation position can both be determined by the Part Number. To determine where a part number is listed, utilize the Parts Index at the end of the Parts List. It is necessary first of all to find the Part Number. This can be accomplished by using the Reference Number listed at the right of the part number in the Parts Index.

## WARNING

⚠ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS

## AVERTISSEMENT

⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIECES RECOMMANDEES PAR LE FABRICANT

## RECOMMENDED SPARE PARTS

Because, if the parts listed below are on hand, almost any reapir can be accomplished, we suggest that you stock these Recommended Spare Parts Items.

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 1 N | BT-714702 | ⚠ TRANS POWER (B,S) 6F10149A1 |
| 2 N | BT-714703 | ⚠ TRANS POER (E,V) 6F10150A1 |
| 3 N | BT-714686 | ⚠ TRANS POWER (J) 6F10133A1 |
| 4 N | BT-714063 | ⚠ TRANS POWER (U) 6F10131A1 |
| 5 N | BT-714062 | ⚠ TRANS POWER (C,A) 6F10132A1 |
| 6 | BV-353847 | RF CONVERTER W/SW MC2-VU3401[U,C,A] |
| 7 | BV-353841 | RF CONVERTER SW MDLL5S150A [S] |
| 8 | BV-353839 | RF CONVERTER/BOOSTOR MDLL6D023A [V] |
| 9 | BV-353840 | RF CONVERTER/BOOSTOR MDLL61023A [B] |
| 10 | BV-353842 | RF CONVERTER/BOOSTOR MDLL6S023A [E] |
| 11 | ED-322238 | ⚠ D SILICON 1B4B41 100/1.0A |
| 12 N | ED-714048 | D LED SLR-54MC5F GREEN |
| 13 N | ED-714049 | D LED SLR-54VC5F |
| 14 | ED-604541 | D SILICON H 1S2076 |
| 15 N | ED-714176 | D SILICON 1SS84 |
| 16 | ED-331667 | D ZENER H HZ7 A1 |
| 17 | ED-351418 | D ZENER H HZ7L B1 |
| 18 | ED-318859 | D ZENER H HZ9 C2 |
| 19 N | ED-714046 | D ZENER HZ4.7BP |
| 20 | EF-593706 | ⚠ FUSE SEMKO T 500MA 250V [E,V,B,S] |
| 21 | EF-327103 | ⚠ FUSE TSC A 250V 0.50A [J] |
| 22 | EF-309390 | ⚠ FUSE TSC 125V 0.50A [U,C,A] |
| 23 N | EI-714177 | IC M50765-641SP |
| 24 | EI-348104 | IC M50780SP |
| 25 N | EI-714051 | IC M50781SP |
| 26 N | EI-714054 | IC M5220P |
| 27 N | EI-714052 | IC TA7347P |
| 28 N | EI-714053 | IC TA7348P |
| 29 | EI-302233 | IC TC4051BP |
| 30 | EI-332259 | IC TC4052BP |
| 31 | EI-200573 | IC TC4053BP |
| 32 | ER-328278 | ⚠ R FUSE ERD2FC 1/4W 10R0G) |
| 33 N | ES-714061 | ⚠ SW PUSH [E,V,B,S] |
| 34 N | ES-714023 | ⚠ SW PUSH SDLC1P TYPE A [J,U,C,A] |
| 35 N | ES-714057 | SW SLIDE |
| 36 | ET-308472 | TR 2SA1115 E,F,G |
| 37 N | ET-714700 | TR 2SA1300 GR |
| 38 | ET-713674 | TR 2SB1034 |
| 39 | ET-330464 | TR 2SC2603 D,E |
| 40 | ET-706734 | TR 2SC2724 C,D |
| 41 N | ET-714168 | TR 2SD1413 |
| 42 | ET-713673 | TR 2SD1438 |

"NOTE" N: New Parts

SYMBOL FOR DESTINATION

SS–V5U[A] : AAL (USA)
SS–V5EK[B] : UK (England)
SS–V5U[C] : CSA (Canada)
SS–V5S[E] : CEE (Europe)
SS–V5J[J] : JPN (Japan)
SS–V5EA[S] : SAA (Australia)
SS–V5UM[U] : U/T (Universal Area)
SS–V5EO[V] : VDE (West Germany)

## 1. PC BOARD BLOCK

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 1-1A | BA-714699 | PC MAIN BLK SS-V5 |
| 1-1B | BA-714841 | PC MAIN BLK SS-V5(U) |
| 1-1C | BA-714840 | PC MAIN BLK SS-V5(C) |
| 1-1D | BA-714839 | PC MAIN BLK SS-V5(A) |
| 1-1E | BA-714842 | PC MAIN BLK SS-V5(E,V) |
| 1-1F | BA-714843 | PC MAIN BLK SS-V5(B) |
| 1-1G | BA-714844 | PC MAIN BLK SS-V5(S) |

NOTE:

PC MAIN BLK consists of following PC BOARDS.

- MAIN PC BOARD
- CONTROL PC BOARD
- VTR3 PC BOARD
- FILTER PC BOARD

## 2. MAIN PC BOARD

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 2-IC101 | EI-714177 | IC M50765-641SP |
| 2-IC102 | EI-714051 | IC M50781SP |
| 2-IC401 | EI-714052 | IC TA7347P |
| 2-IC402 | EI-714053 | IC TA7348P |
| 2-IC403,404 | EI-714052 | IC TA7347P |
| 2-IC601 to 606 | EI-714054 | IC M5220P |
| 2-IC607,608 | EI-302233 | IC TC4051BP |
| 2-IC609 | EI-200573 | IC TC4053BP |
| 2-IC610 | EI-714054 | IC M5220P |
| 2-IC611 | EI-332259 | IC TC4052BP |
| 2-IC612,613 | EI-200573 | IC TC4053BP |
| 2-Q101 | ET-330464 | TR 2SC2603 D,E |
| 2-Q401 | ET-706734 | TR 2SC2724 C,D |
| 2-Q402 | ET-308472 | TR 2SA1115 E,F,G |
| 2-Q403 | ET-706734 | TR 2SC2724 C,D |
| 2-Q404,405 | ET-308472 | TR 2SA1115 E,F,G |
| 2-Q406 | ET-330464 | TR 2SC2603 D,E [E,V,B,S] |
| 2-Q407 | ET-308472 | TR 2SA1115 E,F,G |
| 2-Q408 | ET-330464 | TR 2SC2603 D,E |
| 2-Q409 | ET-308472 | TR 2SA1115E, F,G |
| 2-Q410 | ET-330464 | TR 2SC2603 D,E |
| 2-Q411 | ET-308472 | TR 2SA1115 E,F,G |
| 2-Q412 | ET-330464 | TR 2SC2603 D,E |
| 2-Q501 | ET-714168 | TR 2SD1413 |
| 2-Q502 | ET-330464 | TR 2SC2603 D,E |
| 2-Q503 | ET-714700 | TR 2SA1300 GR [U,C,A,S] |
| 2-Q504 | ET-330464 | TR 2SC2603 D,E [U,C,A,S] |
| 2-Q505 | ET-713673 | TR 2SD1438 |
| 2-Q506 | ET-713674 | TR 2SB1034 |
| 2-D101 | ED-714176 | D SILICON 1SS84 |
| 2-D104 | ED-331667 | D ZENER H HZ7 A1 |
| 2-D401 | ED-604541 | D SILICON H 1S2076 |
| 2-D501,502 | ED-322238 | ⚠ D SILICON 1B4B41 100/1.0A |
| 2-D503 | ED-351418 | D ZENER H HZ7L B1 |
| 2-D504,505 | ED-318859 | D ZENER HZ9 C2 |
| 2-D506 | ED-604541 | D SILICON H 1S2076 [U,C,A,S] |
| 2-L501 | EO-714055 | COIL RF EL0 606RA-101K |
| 2-PJ601 | EJ-712030 | PIN J YKB11-0101 1P |
| 2-PJ602 | EJ-714011 | JACK PLATE YKC21-0136 WHITE |
| 2-PJ603 | EJ-714010 | JACK PLATE YKC21-0137 RED |
| 2-PJ604 | EJ-714011 | JACK PLATE YKC21-0136 WHITE |
| 2-PJ605 | EJ-714010 | JACK PLATE YKC21-0137 RED |
| 2-PJ606 | EJ-714012 | JACK PLATE YKC21-0138 YELLOW |
| 2-PJ607 | EJ-714011 | JACK PLATE YKC21-0136 WHITE |
| 2-PJ608 | EJ-714010 | JACK PLATE YKC21-0137 RED |
| 2-PJ609 | EJ-714012 | JACK PLAE YKC21-0138 YELLOW |
| 2-PJ610 | EJ-714011 | JACK PLATE YKC21-0136 WHITE |
| 2-PJ611 | EJ-714010 | JACK PLATE YKC21-0137 RED |
| 2-PJ612 | EJ-714012 | JACK PLATE YKC21-0138 YELLOW |
| 2-PJ613 | EJ-714011 | JACK PLATE YKC21-0136 WHITE |
| 2-PJ614 | EJ-714010 | JACK PLATE YKC21-0137 RED |
| 2-PJ615 | EJ-714012 | JACK PLATE YKC21-0138 YELLOW |
| 2-R412 | ER-328278 | ⚠ R FUSE ERD2FC 1/4W 10R0G |
| 2-R417 | ER-328278 | ⚠ R FUSE ERD2FC 1/4W 10R0G |
| 2-R504 | ER-311757 | R MF H 1/4W 4701F |
| 2-R505 | ER-318317 | R MF H F10 1/4W 8201F |
| 2-C103 | EC-714045 | C FZOH 104Z |
| 2-C421,422 | EC-316187 | C EC V CUT SM 102M 16DC |
| 2-C424,425 | EC-316187 | C EC V CUT SM 102M 16DC |
| 2-C504 | EC-316188 | C EC V CUT SM 102M 25DC |
| 2-C511,512 | EC-316187 | C EC V CUT SM 102M 16DC |
| 2-F501A | EF-327103 | ⚠ FUSE TSC A 250V 0.50A [J] |
| 2-F501B | EF-309390 | ⚠ FUSE TSC 125V 0.50A [U,C,A] |
| 2-F501C | EF-593706 | ⚠ FUSE SEMKO T 500MA 250V [E,V,B,S] |

## 3. CONTROL PC BOARD

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 3-IC701 | EI-348104 | IC M50730SP |
| 3-D701 to 704 | ED-604541 | D SILICON H 1S2076 |
| 3-D705 | ED-604541 | D SILICON H 1S2076 [E,V,B,S] |
| 3-D706 | ED-714046 | D ZENER HZ4.7BP |
| 3-D707,708 | ED-714048 | D LED SLR-54MC5F GREEN |
| 3-D709,710 | ED-714049 | D LED SLR-54VC5F |
| 3-D711 to 720 | ED-714048 | D LED SLR-54MC5F GREEN |
| 3-D721 to 730 | ED-714049 | D LED SLR-54VC5F |
| 3-D731 | ED-714048 | D LED SLR-54MC5F GREEN [U,C,A,S] |
| 3-D732,733 | ED-604541 | D SILICON H 1S2076 |
| 3-SW701 | ES-714057 | SW SLIDE |
| 3-SW702 | ES-714059 | SW TACT B3F-1000 |
| 3-SW703 | ES-714059 | SW TACT B3F-1000 [U,C,A,S] |
| 3-SW704 to 710 | ES-714059 | SW TACT B3F-1000 |

## 4. VTR 3 PC BOARD

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 4-IC801 | EI-714054 | IC M5220P |
| 2-PJ801 | EJ-712030 | PIN J YKB11-0101 1P |
| 4-PJ802 | EJ-714017 | PIN JACK YKB11-0100 WHITE |
| 4-PJ803 | EJ-714016 | PIN JACK YKB11-0099 RED |
| 4-PJ804 | EJ-712030 | PIN J YKB 11-0101 1P |
| 4-PJ805 | EJ-714017 | PIN JACK YKB11-0100 WHITE |
| 4-PJ806 | EJ-714016 | PIN JACK YKB11-0099 RED |
| 4-C806 | EC-316187 | C EC V CUT SM 102M 16DC |

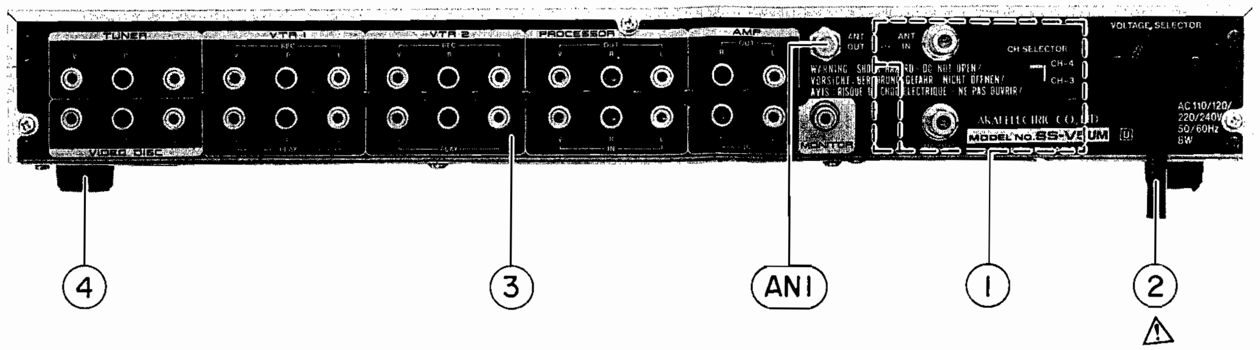
## 5. FILTER PC BOARD

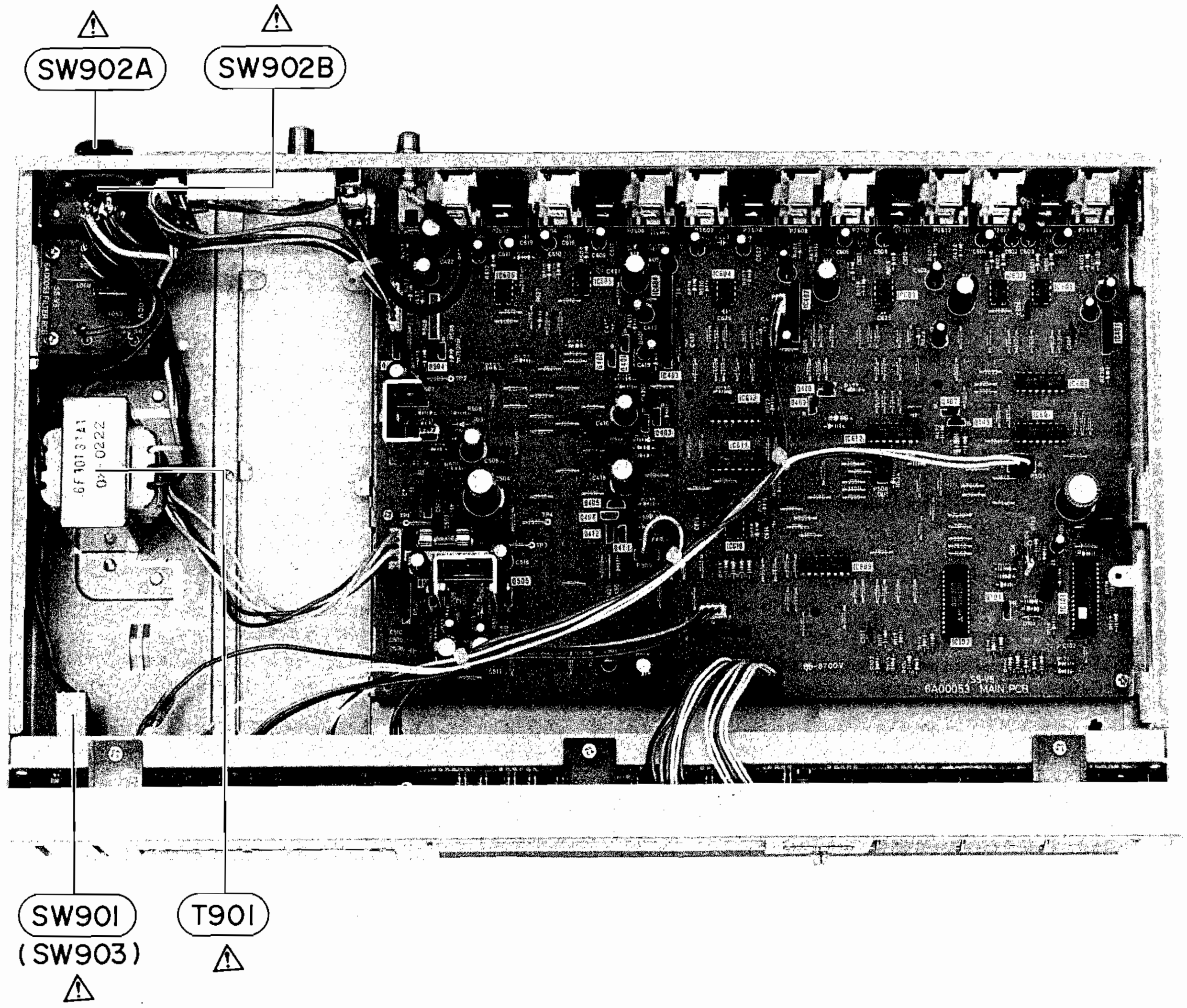
| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 5-C901U | EC-331410 | ⚠ C MMY V ECQUF 473M 250AC [U,E,V,B,S] |
| 5-C901A | EC-714179 | ⚠ C PP 473M 125VAC [J,C,A] |
| 5-R901 | ER-712583 | ⚠ R SD 1/2W 275K [C,A] |

## 6. ASSEMBLY BLOCK

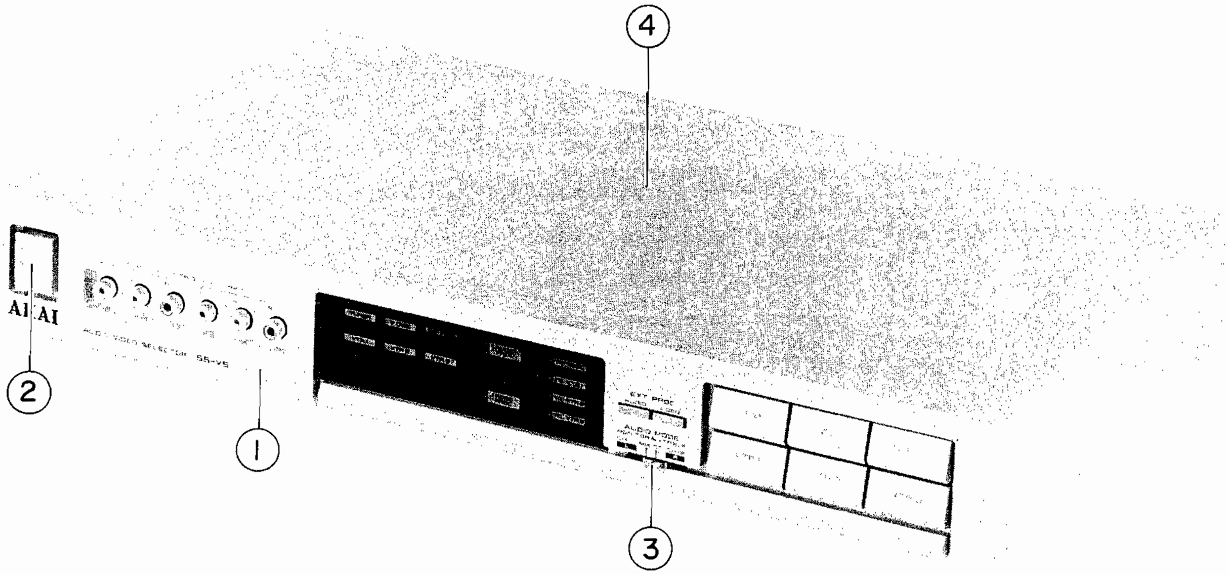
| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 6-T901J | BT-714686 | ⚠ TRANS POWER (J) 6F10133A1 [J] |
| 6-T901A | BT-714062 | ⚠ TRANS PWOER (C,A) 6F10132A1 [C,A] |
| 6-T901U | BT-714063 | ⚠ TRANS POWER(U) 6F10131A1 [U] |
| 6-T901S | BT-714702 | ⚠ TRANS POWER (B,S) 6F10149A1 [S,B] |
| 6-T901E | BT-714703 | ⚠ TRANS POWER (E,V) 6F10150A1 [E,V] |
| 6-SW901 | ES-714023 | ⚠ SW PUSH SDLC1P TYPE A [J,U,C,A] |
| 6-SW902A | EJ-714026 | ⚠ PLUG VOLTAGE SELECTOR S-I7207 [U] |
| 6-SW902B | EJ-714024 | ⚠ SOCKET VOLTAGE SELECTOR S-I726U 09 [U] |
| 6-SW903 | ES-714061 | SW PUSH [E,V,B,S] |
| 6-J901x | EJ-349174 | ⚠ SOCKET OUTLET S2T-732T-122 [J] |
| 6-AN1A | EJ-712022 | CONNECTOR A YKV11-0096 [E,V,B,S] |
| 6-AN1B | EJ-712024 | CONNECTOR F YKV11-0002 [U,C,A] |
| 6-1U | BV-353847 | RF CONVERTER W/SW MC2-VU3401 [U,C,A] |
| 6-1E | BV-353842 | RF CONVERTER/BOOSTOR MDLL6S023A |
| 6-1V | BV-353839 | RF CONVERTER/BOOSTOR MDLL6D023A |
| 6-1B | BV-353840 | RF CONVERTER/BOOSTOR MDLL6I023A |
| 6-1S | BV-353841 | RF CONVERTER SW MDLL5S150A |
| 6-2J | EW-714683 | ⚠ AC CORD 2 CORES J [J] |
| 6-2U | EW-714682 | ⚠ AC CORD 2 CORES C, A [U,C,A] |
| 6-2E | EW-714681 | ⚠ AC CORD 2 CORES E,V [E,V] |
| 6-2B | EW-714684 | ⚠ AC CORD 2 CORES B [B] |
| 6-2S | EW-714685 | ⚠ AC CORD 2 CORES S [S] |
| 6-3J | SP-714689 | PANEL REAR SS-V5 (J) [J] |
| 6-3C | SP-714691 | PANEL REAR SS-V5 (C, A) [C,A] |
| 6-3U | SP-714692 | PANEL REAR SS-V5 (U) [U] |
| 6-3B | SP-714694 | PANEL REAR SS-V5 (B,S) [B,S] |
| 6-3E | SP-714693 | PANEL REAR SS-V5 (E,V) [E,V] |
| 6-4 | SA-714009 | FOOT |

**ASSEMBLY BLOCK**





## FINAL ASSEMBLY BLOCK



### 7. FINAL ASSEMBLY BLOCK

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 7-1J | BD-714695 | PANEL FRONT BLK SS-V5J [J,E,V,B] |
| 7-1U | BD-714697 | PANEL FRONT BLK SS-V5U [U,C,A,S] |
| 7-1JB | BD-714696 | PANEL FRONT BLK SS-V5J-B [J,E,V,B] [BLACK] |
| 7-1UB | BD-714698 | PANEL FRONT BLK SS-V5U-B [U,C,A,S] [BLACK] |
| 7-2 | SK-B345231D | KNOB POWER (1) PART |
| 7-2B | SK-B345231E | KNOB POWER (2)-B PART [BLACK] |
| 7-3 | SK-714687 | KNOB SL |
| 7-3B | SK-714688 | KNOB SL-B [BLACK] |
| 7-4 | SP-714041 | COVER UPPER |
| 7-4B | SP-714042 | COVER UPPER-B [BLACK] |

SYMBOL FOR COLOR VARIATION
NON : STANDARD COLOR
B or BL : BLACK

### 8. ACCESSORY BLOCK (EXCEPT J)

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 8-1 | AX-350757 | CORD RR-AV100 PIN-PIN |
| 8-2 | EW-344151 | CORD RR-61A PINX2-PINX2 |
| 8-3 | AV-349714 | CORD S-L4700 #015 VY-21 |

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| BA-714841 | 1-1B |
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| BD-714695 | 7-1J |
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| BD-714698 | 7-1UB |
| BT-714062 | 6-T901A |
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| BT-714686 | 6-T901J |
| BT-714702 | 6-T901S |
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| EC-316187 | 2-C425 |
| EC-316187 | 2-C424 |
| EC-316187 | 2-C421 |
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| ED-331667 | 2-D104 |
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| ED-604541 | 2-D401 |
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| ED-604541 | 3-D704 |
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| ED-714048 | 3-D719 |
| ED-714049 | 3-D729 |
| ED-714049 | 3-D709 |
| ED-714049 | 3-D730 |
| ED-714049 | 3-D710 |
| ED-714049 | 3-D728 |
| ED-714049 | 3-D721 |
| ED-714049 | 3-D727 |
| ED-714049 | 3-D722 |
| ED-714049 | 3-D724 |
| ED-714049 | 3-D723 |
| ED-714049 | 3-D725 |
| ED-714049 | 3-D726 |
| ED-714176 | 2-D101 |
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| EF-327103 | 2-F501A |
| EF-593706 | 2-F501C |
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| EI-200573 | 2-IC613 |
| EI-200573 | 2-IC612 |
| EI-302233 | 2-IC607 |
| EI-302233 | 2-IC608 |
| EI-332259 | 2-IC611 |
| EI-348104 | 3-IC701 |
| EI-714051 | 2-IC102 |
| EI-714052 | 2-IC401 |
| EI-714052 | 2-IC404 |
| EI-714052 | 2-IC403 |
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| EI-714054 | 2-IC605 |
| EI-714054 | 2-IC606 |
| EI-714054 | 2-IC602 |
| EI-714054 | 2-IC601 |
| EI-714054 | 2-IC610 |
| EI-714054 | 2-IC604 |
| EI-714054 | 2-IC603 |
| EI-714054 | 4-IC801 |
| EI-714177 | 2-IC101 |
| EJ-349174 | 6-J901x |
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| EJ-712024 | 6-AN1B |
| EJ-712030 | 2-PJ601 |
| EJ-712030 | 4-PJ804 |
| EJ-712030 | 4-PJ801 |
| EJ-714010 | 2-PJ605 |
| EJ-714010 | 2-PJ608 |
| EJ-714010 | 2-PJ614 |
| EJ-714010 | 2-PJ603 |
| EJ-714010 | 2-PJ611 |
| EJ-714011 | 2-PJ613 |
| EJ-714011 | 2-PJ604 |
| EJ-714011 | 2-PJ610 |
| EJ-714011 | 2-PJ607 |
| EJ-714011 | 2-PJ602 |
| EJ-714012 | 2-PJ606 |
| EJ-714012 | 2-PJ615 |
| EJ-714012 | 2-PJ609 |
| EJ-714012 | 2-PJ612 |
| EJ-714016 | 4-PJ803 |
| EJ-714016 | 4-PJ806 |
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| EJ-714017 | 4-PJ805 |
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| EJ-714026 | 6-SW902A |
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| ER-311757 | 2-R504 |
| ER-318317 | 2-R505 |
| ER-328278 | 2-R412 |
| ER-328278 | 2-R417 |
| ER-712583 | 5-R901 |
| ES-714023 | 6-SW901 |
| ES-714057 | 3-SW701 |
| ES-714059 | 3-SW706 |
| ES-714059 | 3-SW702 |
| ES-714059 | 3-SW707 |
| ES-714059 | 3-SW708 |
| ES-714059 | 3-SW710 |
| ES-714059 | 3-SW709 |
| ES-714059 | 3-SW705 |
| ES-714059 | 3-SW704 |
| ES-714059 | 3-SW703 |
| ES-714061 | 6 SW903 |
| ET-308472 | 2-Q411 |
| ET-308472 | 2-Q402 |
| ET-308472 | 2-Q404 |
| ET-308472 | 2-Q405 |
| ET-308472 | 2-Q407 |
| ET-308472 | 2-Q409 |
| ET-330464 | 2-Q504 |
| ET-330464 | 2-Q502 |
| ET-330464 | 2-Q101 |
| ET-330464 | 2-Q408 |
| ET-330464 | 2-Q410 |
| ET-330464 | 2-Q412 |
| ET-330464 | 2-Q406 |
| ET-706734 | 2-Q401 |
| ET-706734 | 2-Q403 |
| ET-713673 | 2-Q505 |
| ET-713674 | 2-Q506 |
| ET-714168 | 2-Q501 |
| ET-714700 | 2-Q503 |
| EW-344151 | 8-2 |
| EW-714681 | 6-2E |
| EW-714682 | 6-2U |
| EW-714683 | 6-2J |
| EW-714684 | 6-2B |
| EW-714685 | 6-2S |
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| SK-714687 | 7-3 |
| SK-714688 | 7-3B |
| SP-714041 | 7-4 |
| SP-714042 | 7-4B |
| SP-714689 | 6-3J |
| SP-714691 | 6-3C |
| SP-714692 | 6-3U |
| SP-714693 | 6-3E |
| SP-714694 | 6-3B |

# AKAI

## MODEL SS-V5 J/U/UM EA/EK/EO/S

# SCHEMATIC DIAGRAM AND PC BOARD

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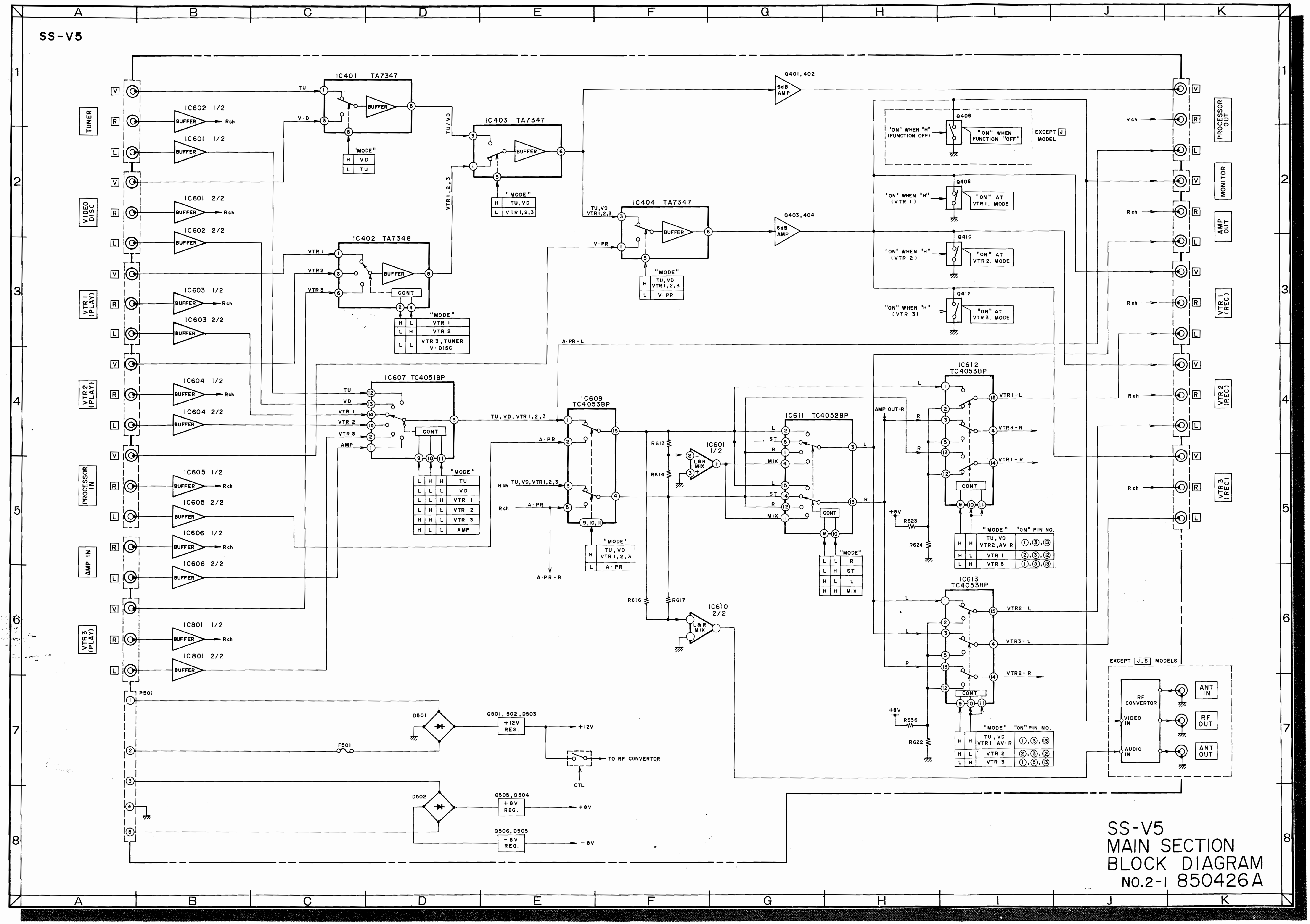
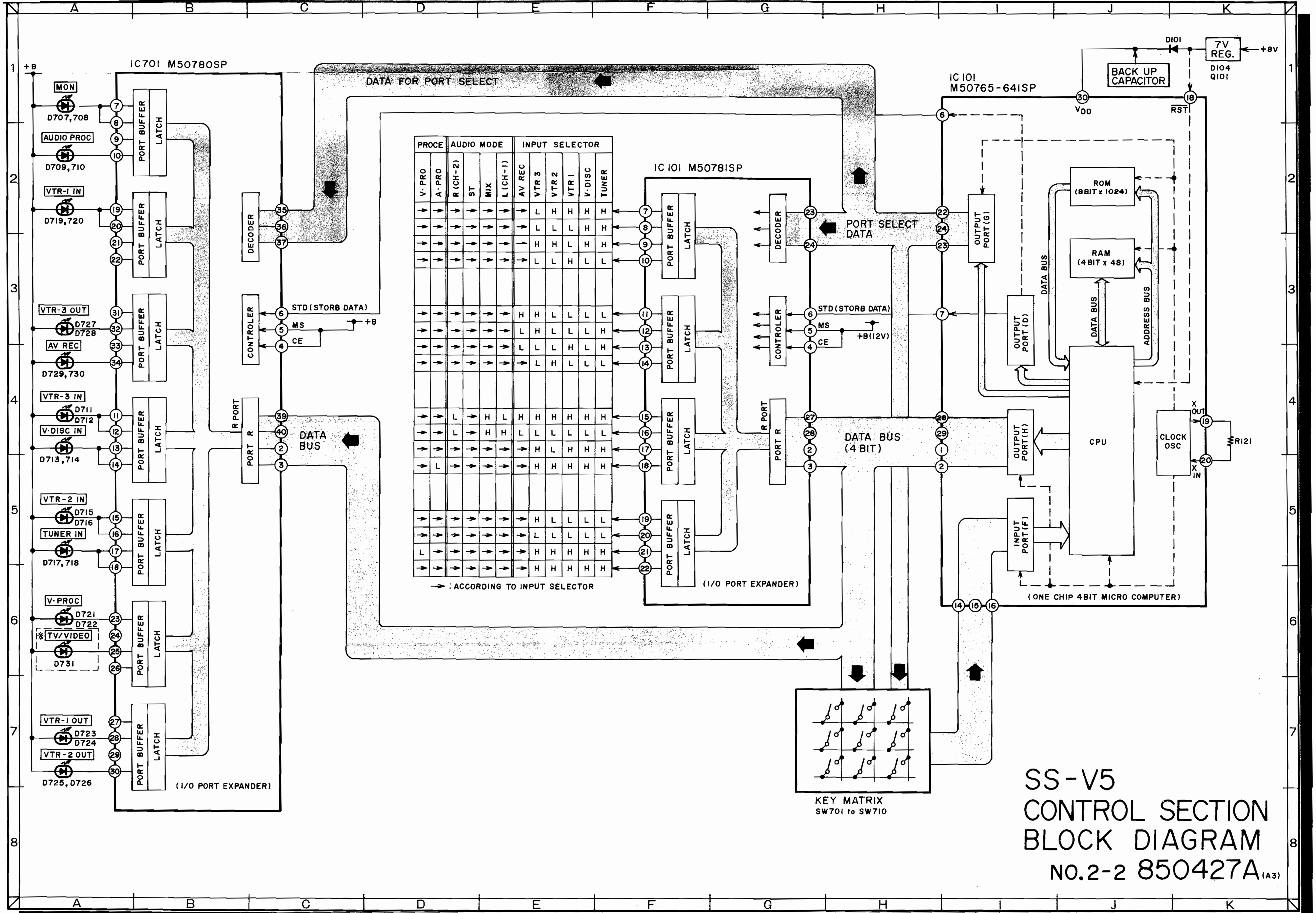
SS-V5


A B C D E F G H I J K
1 2 3 4 5 6 7 8
TUNER
VIDEO DISC
VTR 1 (PLAY)
VTR 2 (PLAY)
PROCESSOR IN
AMP IN
VTR 3 (PLAY)
V R L
IC602 1/2
IC601 1/2
IC601 2/2
IC602 2/2
IC603 1/2
IC603 2/2
IC604 1/2
IC604 2/2
IC605 1/2
IC605 2/2
IC606 1/2
IC606 2/2
IC801 1/2
IC801 2/2
BUFFER
Rch
IC401 TA7347
TU
V·D
"MODE"
H VD
L TU
IC402 TA7348
VTR 1
VTR 2
VTR 3
CONT
H L VTR 1
L H VTR 2
L L VTR 3, TUNER V·DISC
IC403 TA7347
TU/VD
VTR 1,2,3
H TU, VD
L VTR 1,2,3
IC404 TA7347
TU, VD VTR 1,2,3
V·PR
H TU, VD VTR 1,2,3
L V·PR
Q401, 402
6dB AMP
Q403, 404
Q406
"ON" WHEN "H" (FUNCTION OFF)
"ON" WHEN FUNCTION "OFF"
EXCEPT J MODEL
Q408
"ON" WHEN "H" (VTR 1)
"ON" AT VTR 1. MODE
Q410
"ON" WHEN "H" (VTR 2)
"ON" AT VTR 2. MODE
Q412
"ON" WHEN "H" (VTR 3)
"ON" AT VTR 3. MODE
PROCESSOR OUT
MONITOR
AMP OUT
VTR 1 (REC)
VTR 2 (REC)
VTR 3 (REC)
A·PR-L
IC607 TC4051BP
TU
VD
VTR 1
VTR 2
VTR 3
AMP
L H H TU
L L L VD
L L H VTR 1
L H L VTR 2
H H L VTR 3
H L L AMP
TU, VD, VTR 1,2,3
A·PR
IC609 TC4053BP
TU, VD, VTR 1,2,3
H TU, VD VTR 1,2,3
L A·PR
A·PR-R
R613
R614
IC601 1/2
L&R MIX
R616
R617
IC610 2/2
IC611 TC4052BP
L ST R MIX
L L R
L H ST
H L L
H H MIX
AMP OUT-R
IC612 TC4053BP
VTR1-L
VTR3-R
VTR1-R
+8V
R623
R624
"MODE" "ON" PIN NO.
H H TU, VD VTR2, AV·R ①,③,⑬
H L VTR 1 ②,③,⑫
L H VTR 3 ①,⑤,⑬
IC613 TC4053BP
VTR2-L
VTR3-L
VTR2-R
R636
R622
H H TU, VD VTR1 AV·R ①,③,⑬
H L VTR 2 ②,③,⑫
L H VTR 3 ①,⑤,⑬
EXCEPT J, S MODELS
RF CONVERTOR
VIDEO IN
AUDIO IN
ANT IN
RF OUT
ANT OUT
P501
D501
Q501, 502, D503
+12V REG.
+12V
F501
TO RF CONVERTOR
CTL
D502
Q505, D504
+8V REG.
+8V
Q506, D505
-8V REG.
-8V

SS-V5
MAIN SECTION
BLOCK DIAGRAM
NO.2-1 850426A



+B
IC701 M50780SP
MON
D707,708
AUDIO PROC
D709,710
VTR-1 IN
D719,720
VTR-3 OUT
D727
D728
AV REC
D729,730
VTR-3 IN
D711
D712
V·DISC IN
D713,714
VTR-2 IN
D715
D716
TUNER IN
D717,718
V·PROC
D721
D722
※TV/VIDEO
D731
VTR-1 OUT
D723
D724
VTR-2 OUT
D725,D726
PORT BUFFER
LATCH
(I/O PORT EXPANDER)
DECODER
CONTROLER
R PORT
PORT R
DATA FOR PORT SELECT
STD (STORB DATA)
MS
CE
+B
DATA BUS
IC101 M50781SP
PORT SELECT DATA
+B(12V)
DATA BUS (4 BIT)
(I/O PORT EXPANDER)
KEY MATRIX
SW701 to SW710
IC101
M50765-641SP
VDD
RST
D101
7V REG.
+8V
D104
Q101
BACK UP CAPACITOR
OUTPUT PORT (G)
OUTPUT PORT (D)
OUTPUT PORT (H)
INPUT PORT (F)
ROM (8BIT x 1024)
RAM (4BIT x 48)
DATA BUS
ADDRESS BUS
CPU
CLOCK OSC
X OUT
X IN
R121
(ONE CHIP 4BIT MICRO COMPUTER)

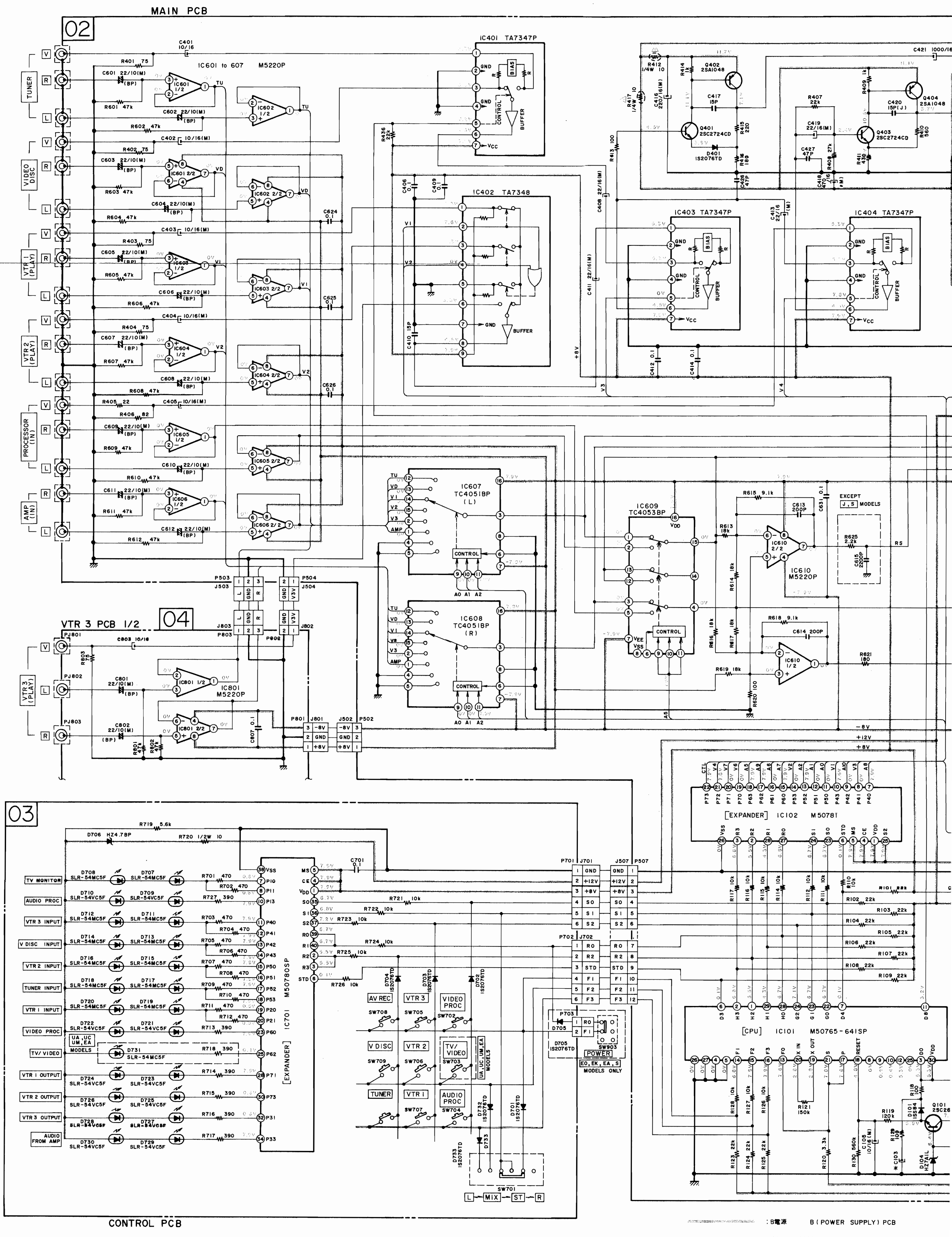
| PROCE | | AUDIO MODE | | | | INPUT SELECTOR | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| V·PRO | A·PRO | R (CH-2) | ST | MIX | L (CH-1) | AV REC | VTR 3 | VTR 2 | VTR 1 | V·DISC | TUNER |
| → | → | → | → | → | → | → | L | H | H | H | H |
| → | → | → | → | → | → | → | L | L | L | H | H |
| → | → | → | → | → | → | → | H | H | L | H | H |
| → | → | → | → | → | → | → | L | L | H | L | L |
| | | | | | | | | | | | |
| → | → | → | → | → | → | H | H | L | L | L | L |
| → | → | → | → | → | → | L | H | L | L | L | H |
| → | → | → | → | → | → | L | L | L | H | L | H |
| → | → | → | → | → | → | → | L | H | L | L | L |
| | | | | | | | | | | | |
| → | → | L | → | H | L | H | H | H | H | H | H |
| → | → | L | → | H | H | L | L | L | L | L | L |
| → | → | → | → | → | → | → | H | L | H | H | H |
| → | L | → | → | → | → | → | H | H | H | H | H |
| | | | | | | | | | | | |
| → | → | → | → | → | → | → | H | L | L | L | L |
| → | → | → | → | → | → | → | L | L | L | L | L |
| L | → | → | → | → | → | → | H | H | H | H | H |
| → | → | → | → | → | → | → | H | H | H | H | H |

→ : ACCORDING TO INPUT SELECTOR

# SS-V5
# CONTROL SECTION BLOCK DIAGRAM

NO.2-2 850427A (A3)

-V5

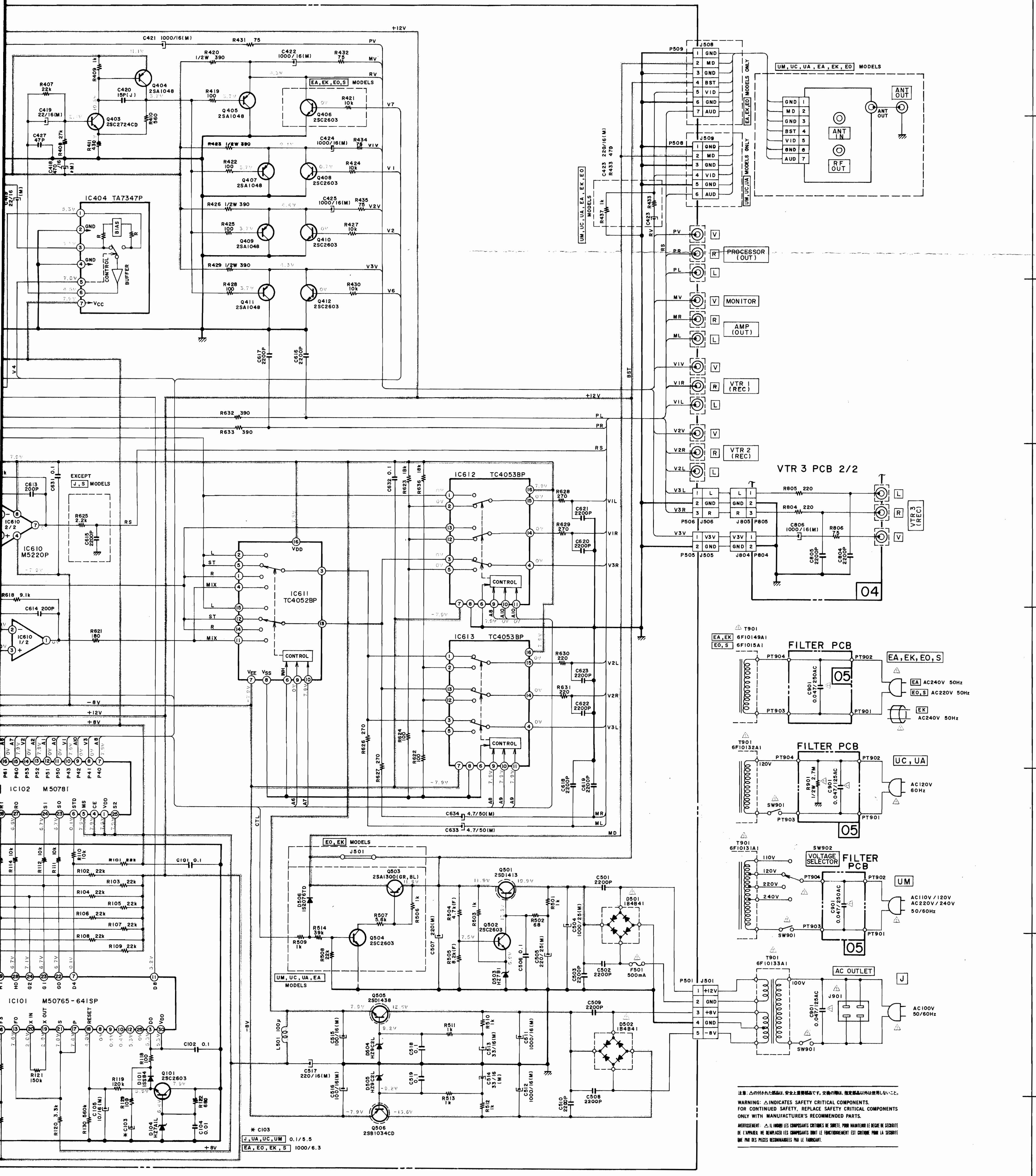

MAIN PCB
02
TUNER
VIDEO DISC
VTR 1 (PLAY)
VTR 2 (PLAY)
PROCESSOR (IN)
AMP (IN)
IC601 to 607 M5220P
IC401 TA7347P
IC402 TA7348
IC403 TA7347P
IC404 TA7347P
Q402 2SA1048
Q401 2SC2724CD
D401 1S2076TD
Q403 2SC2724CD
Q404 2SA1048
C421 1000/16
BIAS
CONTROL
BUFFER
IC607 TC4051BP (L)
IC608 TC4051BP (R)
IC609 TC4053BP
IC610 M5220P
EXCEPT J, S MODELS
R625 2.2k
C615 2200P
P503
J503
P504
J504
VTR 3 PCB 1/2
04
VTR 3 (PLAY)
IC801 M5220P
P801 J801 J502 P502
-8V
+8V
+12V
GND
[EXPANDER] IC102 M50781
03
CONTROL PCB
IC701 M50780SP
[EXPANDER]
TV MONITOR
AUDIO PROC
VTR 3 INPUT
V DISC INPUT
VTR 2 INPUT
TUNER INPUT
VTR 1 INPUT
VIDEO PROC
TV/VIDEO
VTR 1 OUTPUT
VTR 2 OUTPUT
VTR 3 OUTPUT
AUDIO FROM AMP
SLR-54MC5F
SLR-54VC5F
D706 HZ4.7BP
R719 5.6k
R720 1/2W 10
P701 J701 J507 P507
P702 J702
P703
D705 1S2076TD
SW903
POWER
EO, EK, EA, S MODELS ONLY
AV REC
VTR 3
VIDEO PROC
V DISC
VTR 2
TV/VIDEO
UA, UC, UM, EA MODELS
TUNER
VTR 1
AUDIO PROC
SW701
L MIX ST R
[CPU] IC101 M50765-641SP
Q101 2SC26
D104 HZ7AL

: B電源　B (POWER SUPPLY) PCB

: AUDIO SIGNAL LINE

: VIDEO SIGNAL LINE

＊ INDICATED SIGNAL LINES & VOLTAGES VTR1 MODE.


F
G
H
I
J
K
1
2
3
4
5
6
7
8
IC404 TA7347P
BIAS
CONTROL
BUFFER
Vcc
Q403 2SC2724CD
Q404 2SA1048
Q405 2SA1048
Q406 2SC2603
Q407 2SA1048
Q408 2SC2603
Q409 2SA1048
Q410 2SC2603
Q411 2SA1048
Q412 2SC2603
EA, EK, EO, S MODELS
+12V
PV
MV
RV
V7
V1V
V1
V2V
V2
V3V
V6
V4
R632 390
R633 390
PL
PR
RS
BST
J508
J509
P509
P508
GND
MD
BST
VID
AUD
EA, EK, EO MODELS ONLY
UM, UC, UA MODELS ONLY
UM, UC, UA, EA, EK, EO MODELS
ANT OUT
ANT IN
RF OUT
UM, UC, UA, EA, EK, EO MODELS
PROCESSOR (OUT)
MONITOR
AMP (OUT)
VTR 1 (REC)
VTR 2 (REC)
VTR 3 PCB 2/2
VTR 3 (REC)
04
IC610 M5220P
IC610 2/2
IC610 1/2
EXCEPT J, S MODELS
IC611 TC4052BP
IC612 TC4053BP
IC613 TC4053BP
CONTROL
VDD
VEE
VSS
INH
L
ST
R
MIX
V1L
V1R
V3R
V2L
V2R
V3L
MR
ML
MD
CTL
-8V
+8V
IC102 M50781
IC101 M50765-641SP
RESET
Q101 2SC2603
D101 1SS94
D104 HZ7A1L
EO, EK MODELS
J501
UM, UC, UA, EA MODELS
Q501 2SD1413
Q502 2SC2603
Q503 2SA1300(GR, BL)
Q504 2SC2603
Q505 2SD1438
Q506 2SB1034CD
D501 B4B41
D502 B4B41
D503 HZ7B1
D504 HZ9C2L
D505 HZ9C2L
D506 1S2076
F501 500mA
L501 100μ
P501 J501
+12V
GND
+8V
-8V
T901 6F10149A1
T901 6F10151A1
EA, EK
EO, S
FILTER PCB
PT901
PT902
PT903
PT904
EA, EK, EO, S
EA AC240V 50Hz
EO, S AC220V 50Hz
EK AC240V 50Hz
05
T901 6F10132A1
UC, UA
AC120V 60Hz
SW901
T901 6F10131A1
SW902 VOLTAGE SELECTOR
110V
120V
220V
240V
UM
AC110V/120V AC220V/240V 50/60Hz
T901 6F10133A1
AC OUTLET
J901
J
AC100V 50/60Hz
100V
* C103
J, UA, UC, UM 0.1/5.5
EA, EO, EK, S 1000/6.3

注意：△の付された部品は、安全上重要部品です。交換の際は、指定部品以外は使用しないこと。

WARNING: △INDICATES SAFETY CRITICAL COMPONENTS.
FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

AVERTISSEMENT: △ IL INDIQU LES COMPOSANTS CRITIQUES DE SURETE. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES COMPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT.

: B電源　B (POWER SUPPLY) PCB

: AUDIO SIGNAL LINE

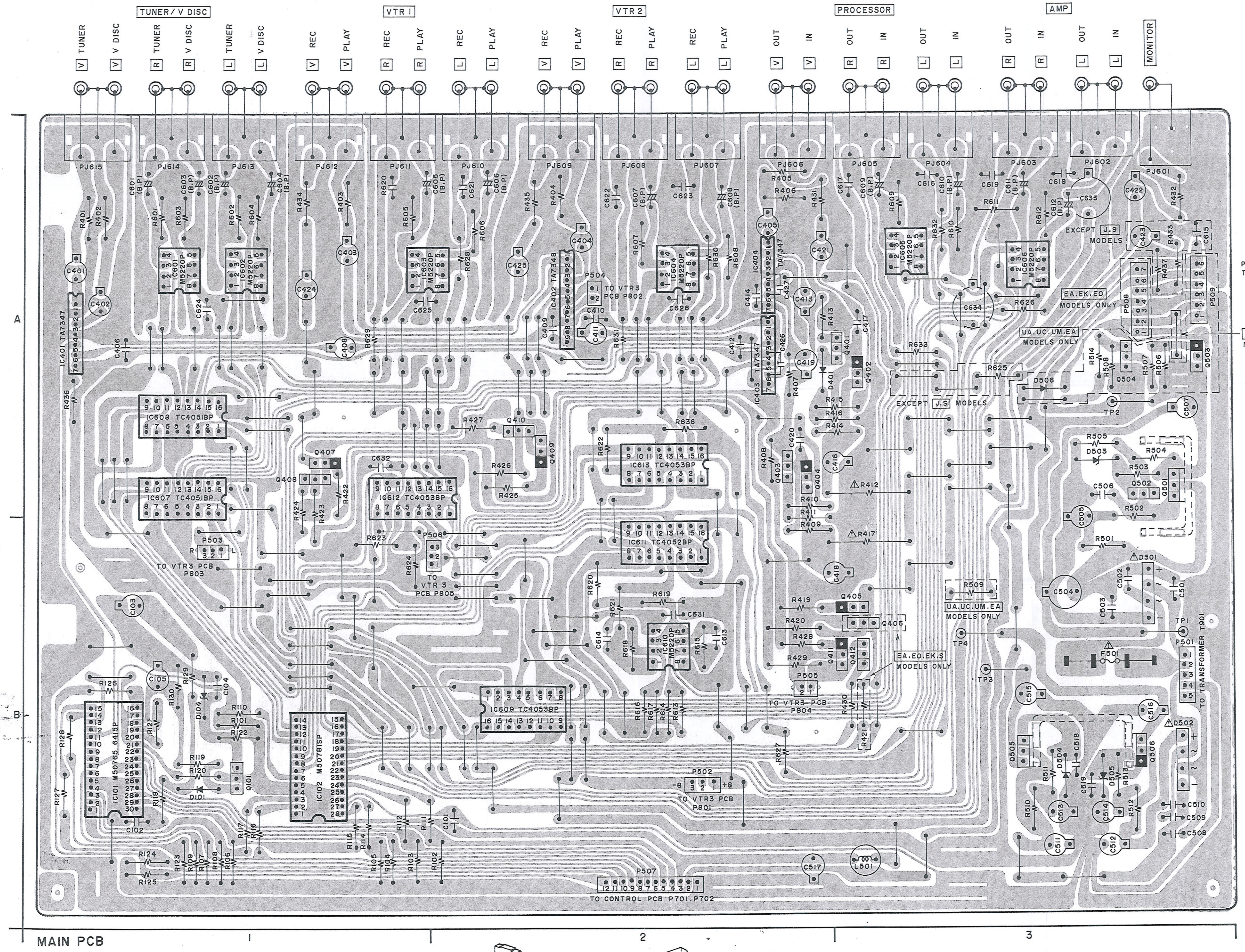
: VIDEO SIGNAL LINE

NES & VOLTAGES VTR1 MODE.

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W(J)
ALL CAPACITORS IN μF 50WV(K)
POWER TRANSFORMER IS DIFFERENT
ACCORDING TO AREA

備考
C, Rの単位(特に指定された部品以外)
抵抗……………Ω 1/4W(J), (FS)記号は不燃性部品
コンデンサ………μF 50WV(K)
各電圧は、GND間のDC電圧をデジタルボルトメーターにて測定した値です。

# SS-V5
# SCHEMATIC DIAGRAM
NO. 850428A₄


TUNER/V DISC
VTR 1
VTR 2
PROCESSOR
AMP
V TUNER
V V DISC
R TUNER
R V DISC
L TUNER
L V DISC
V REC
V PLAY
R REC
R PLAY
L REC
L PLAY
V REC
V PLAY
R REC
R PLAY
L REC
L PLAY
V OUT
V IN
R OUT
R IN
L OUT
L IN
R OUT
R IN
L OUT
L IN
MONITOR
PJ615
PJ614
PJ613
PJ612
PJ611
PJ610
PJ609
PJ608
PJ607
PJ606
PJ605
PJ604
PJ603
PJ602
PJ601
IC401 TA7347
IC601 M5220P
IC602 M5220P
IC603 M5220P
IC402 TA7348
IC604 M5220P
IC404 TA7347
IC403 TA7347
IC605 M5220P
IC606 M5220P
IC608 TC4051BP
IC607 TC4051BP
IC612 TC4053BP
IC613 TC4053BP
IC611 TC4052BP
IC610 M5220P
IC609 TC4053BP
IC101 M50765 6415P
IC102 M50781SP
P504 TO VTR3 PCB P802
P503 TO VTR3 PCB P803
P506 TO VTR 3 PCB P805
P505 TO VTR3 PCB P804
P502 TO VTR3 PCB P801
P507 TO CONTROL PCB P701.P702
P501 TO TRANSFORMER T901
EXCEPT J.S MODELS
EA.EK.EO MODELS ONLY
UA.UC.UM.EA MODELS ONLY
EA.EO.EK.S MODELS ONLY
TP1
TP2
TP3
TP4
F501
A
B
1
2
3
MAIN PCB

P508, P509 TO RF CONVERTOR

EO.EK MODELS ONLY

LOCATION OF COMPONENTS

| ICs | |
|---|---|
| IC101 | B1 |
| IC102 | B1 |
| IC401 | A1 |
| IC402 | A2 |
| IC403 | A2 |
| IC404 | A2 |
| IC601 | A1 |
| IC602 | A1 |
| IC603 | A1, A2 |
| IC604 | A2 |
| IC605 | A3 |
| IC606 | A3 |
| IC607 | A1 |
| IC608 | A1 |
| IC609 | B2 |
| IC610 | B2 |
| IC611 | B2 |
| IC612 | A1, A2 |
| IC613 | A2 |

| TRs | |
|---|---|
| Q101 | B1 |
| Q401 | A3 |
| Q402 | A3 |
| Q403 | A2 |
| Q404 | A2 |
| Q405 | B3 |
| Q406 | B3 |
| Q407 | A1 |
| Q408 | A1 |
| Q409 | A2 |
| Q410 | A2 |
| Q411 | B3 |
| Q412 | B3 |
| Q501 | A3 |
| Q502 | A3 |
| Q503 | A3 |
| Q504 | A3 |
| Q505 | B3 |
| Q506 | B3 |

| CONNECTORs | |
|---|---|
| P501 | B3 |
| P502 | B2 |
| P503 | B1 |
| P504 | A2 |
| P505 | B2 |
| P506 | B1, 2 |
| P507 | B2 |
| P508 | A3 |
| P509 | A3 |

注意：⚠の付された部品は、安全上重要部品です。交換の際は、指定部品以外は使用しないこと。

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS.
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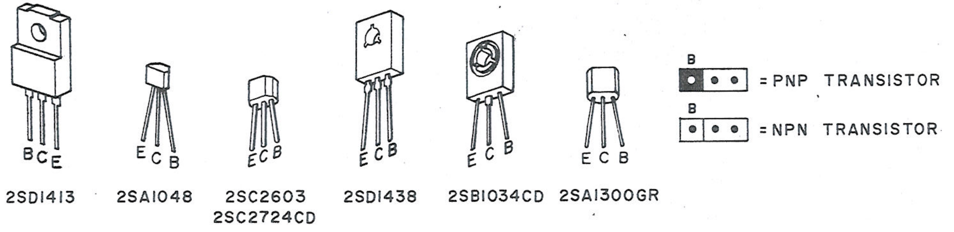
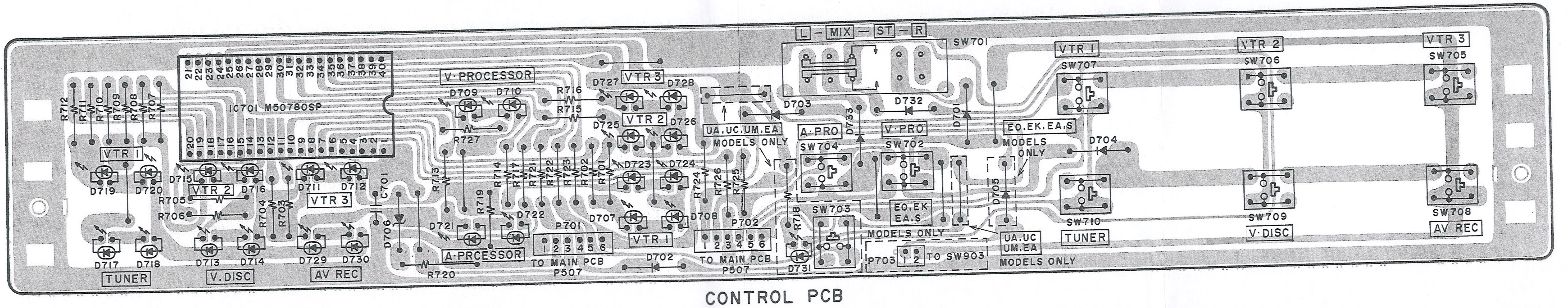
AVERTISSEMENT: ⚠ IL INDIQU LES COMPOSANTS CRITIQUES DE SURETE. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES COMPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT.

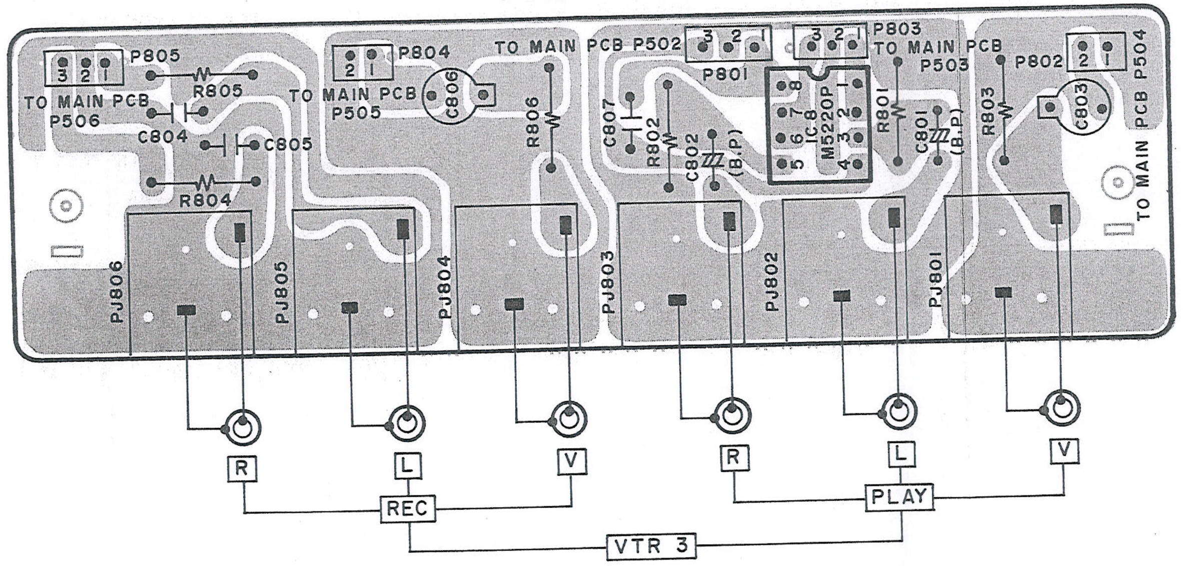

B C E
2SD1413
E C B
2SA1048
E C B
2SC2603
2SC2724CD
E C B
2SD1438
E C B
2SB1034CD
E C B
2SA1300GR
B
= PNP TRANSISTOR
B
= NPN TRANSISTOR

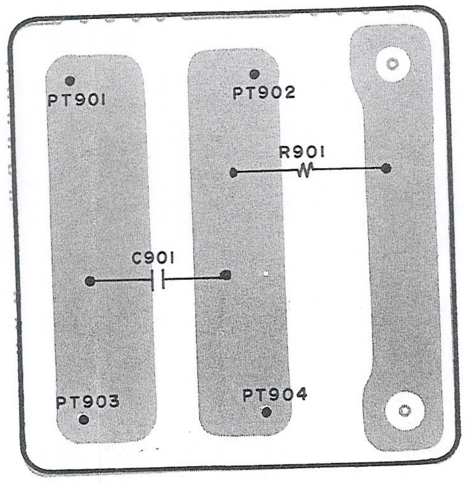
| | |
|---|---|
| Q101, 406, 408, 410, 412, 502, 504 | 2SC2603 |
| Q401, 403 | 2SC2724CD |
| Q402, 404, 405, 407, 409, 411 | 2SA1048 |
| Q501 | 2SD1413 |
| Q503 | 2SA1300GR |
| Q505 | 2SD1438 |
| Q506 | 2SB1034CD |


L
MIX
ST
R
SW701
VTR 1
SW707
VTR 2
SW706
VTR 3
SW705
IC701 M50780SP
V·PROCESSOR
D709
D710
R716
R715
R727
D727
D728
D725
D726
D723
D724
UA.UC.UM.EA
MODELS ONLY
D703
D732
D733
D701
A·PRO
SW704
V·PRO
SW702
EO.EK.EA.S
MODELS ONLY
D704
SW703
EO.EK
EA.S
MODELS ONLY
D705
UA.UC
UM.EA
MODELS ONLY
P703
TO SW903
SW710
TUNER
SW709
V·DISC
SW708
AV REC
R712
R711
R710
R709
R708
R707
D719
D720
D715
D716
D711
D712
VTR 2
VTR 3
C701
R705
R706
R704
R703
D713
D714
D729
D730
D717
D718
TUNER
V.DISC
AV REC
D706
R713
R719
R714
R717
R721
R722
R723
R702
R701
D721
D722
A·PRCESSOR
R720
P701
TO MAIN PCB
P507
D707
D708
D702
R724
R726
R725
P702
R718
D731

CONTROL PCB

## VTR 3 PCB


P805
R805
TO MAIN PCB
P506
C804
C805
R804
P804
TO MAIN PCB
P505
C806
R806
TO MAIN PCB P502
P801
C807
R802
C802
(B.P)
IC8
M5220P
P803
TO MAIN PCB
P503
R801
C801
(B.P)
R803
P802
C803
TO MAIN PCB P504
PJ806
PJ805
PJ804
PJ803
PJ802
PJ801
R
L
V
R
L
V
REC
PLAY
VTR 3


PT901
PT902
R901
C901
PT903
PT904

FILTER PCB

**AKAI ELECTRIC CO., LTD.**
12-14, 2-Chome, Higashi-Kojiya, Ohta-Ku, Tokyo, Japan
TEL: Tokyo (742) 5111 CABLE HIFIAKAI TOKYO TELEX. J26261
Printed No. 850403-K1-2600 Printed Date May 22, 1985
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